



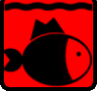

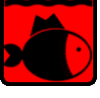


## Assessment Summary

Beech Creek 0 to 3.9 KY486697_01	 <p>This part of the stream does not support aquatic life, does not support swimming (Primary Contact Recreation), does not support fishing/wading/boating (Secondary Contact Recreation).</p>
Mouth to Headwaters	
Muhlenberg County, Green River Basin	
HUC 05110003	
Assessment Date: 5/22/2013	





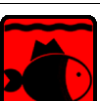

Use	Cause of Impairment	Suspected Source(s) of Impairment	Basis for Listing	Data Collection and Analysis Methods <sup>1,2,3</sup>
 (4A-NS)	Escherichia coli	Source Unknown	Concentrations exceeded the water quality standard	Pathogen Monitoring
 (4A-NS)	pH	Surface Mining	Concentrations did not meet the water quality standard	Pathogen Monitoring
 (4A-NS)	pH	Surface Mining	Concentrations did not meet the water quality standard	Pathogen Monitoring
 (4A-NS)	Ammonia (Un-ionized)	Source Unknown	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	Cadmium	Surface Mining	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	Copper	Surface Mining	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring

<sup>1</sup> Data locations: Physical/chemical monitoring data and pathogen data can be found on the EPA Water Quality Portal; chemical monitoring data for regulated facilities (e.g. wastewater and drinking water) can be found in the EPA ECHO database (online); biological monitoring summary scores and habitat assessment scores can be found in the EPA STORET database (online); and raw community species data and fish tissue analysis data are available on request through KDOW Open Records (expected in STORET 2015).

<sup>2</sup> Data Source(s): KDOW

<sup>3</sup> Data Collection Date(s): 11/17/2010 - 10/19/2011

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 (4A-NS)	Iron	Surface Mining	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	Nickel	Surface Mining	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	Oxygen, Dissolved	Surface Mining	Concentrations did not meet the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	pH	Surface Mining	Concentrations did not meet the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	Specific Conductance	Surface Mining	Elevated dissolved substances are negatively affecting the aquatic community	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring
 (4A-NS)	Zinc	Surface Mining	Concentrations exceeded the water quality standard	Biological Monitoring, Habitat Assessment, Physical/Chemical Monitoring

<sup>1</sup> Data locations: Physical/chemical monitoring data and pathogen data can be found on the EPA Water Quality Portal; chemical monitoring data for regulated facilities (e.g. wastewater and drinking water) can be found in the EPA ECHO database (online); biological monitoring summary scores and habitat assessment scores can be found in the EPA STORET database (online); and raw community species data and fish tissue analysis data are available on request through KDOW Open Records (expected in STORET 2015).

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